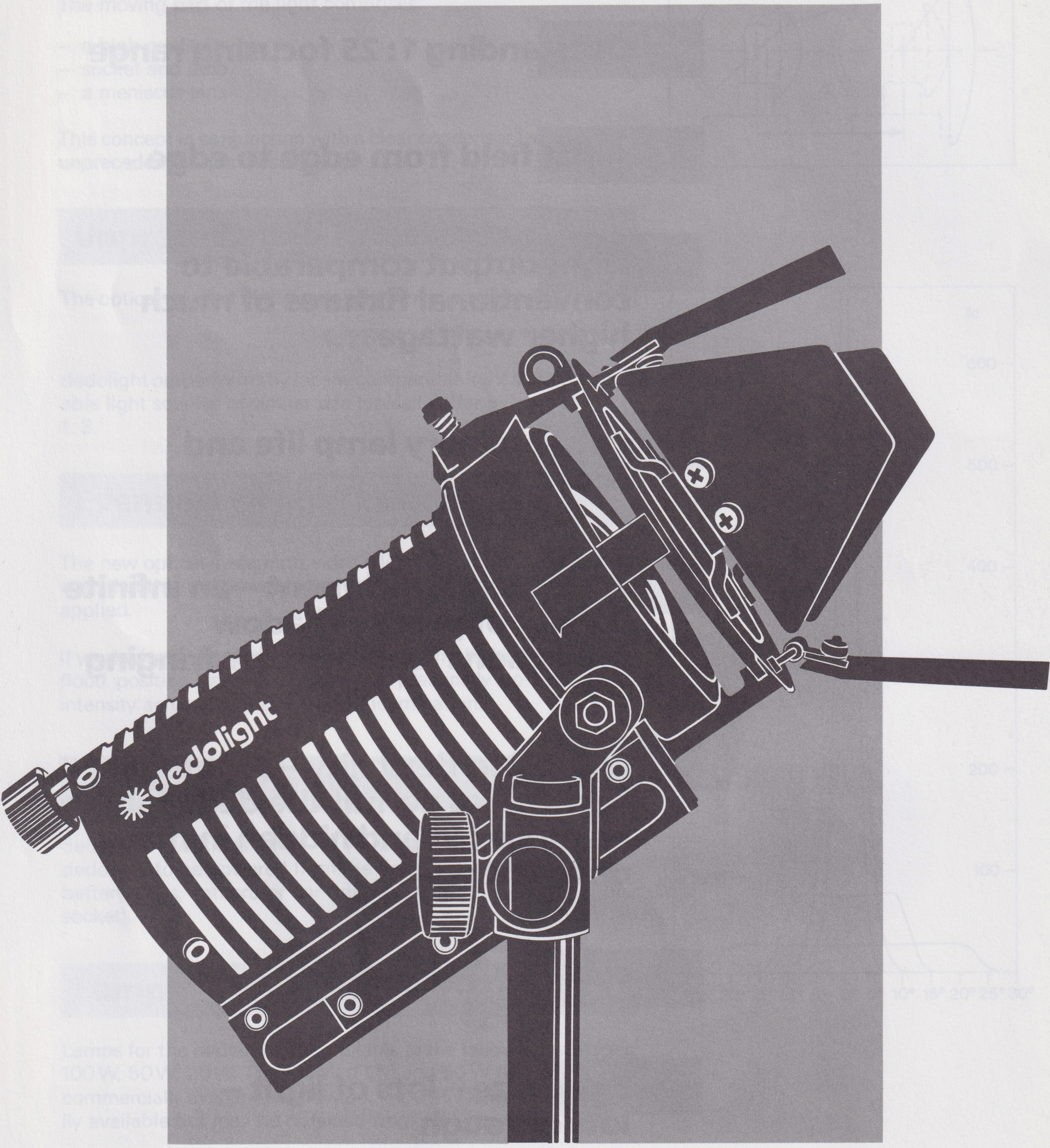
dedolight



A revolutionary optical system (patented) – surpasses fresnel technology

Outstanding 1 : 25 focusing range

A flat field from edge to edge

Light output comparable to conventional fixtures of much higher wattage

Extraordinary lamp life and economy

Projection attachment – an infinite variety of precise shadow projections with no color fringing

Mounting flexibility – a variety of accessories permit the dedolight to be mounted and hidden in many different ways

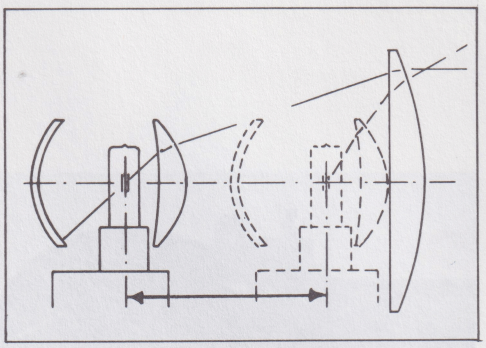
Precision manufacturing

Small size – lots of light – lots of tough

dedolight is a trademark registered with the US Patent office

The optics

The revolutionary concept of the dedolight is based on a true optical system beyond the fresnel generation.



The moving part of the light comprises:

- a high quality mirror
- socket and bulb
- a meniscus lens

This concept in conjunction with a clear condensor lens provides unprecedented qualities.

Unprecedented focusing range

The optical concept of the dedolight provides a focusing range of

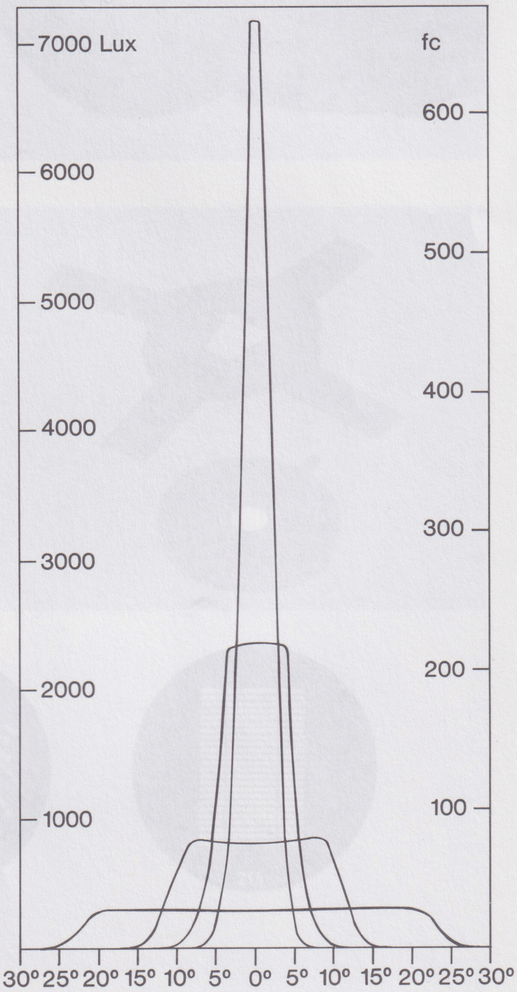
1:25

dedolight outperforms by far any comparable light source. Focusable light sources of similar size typically offer a range of 1:2 or 1:3.

Evenness of light distribution

The new optical system provides a light distribution which is so even that the traditional concept of "beam and spread" cannot be applied.

If you look at the graph you will see for example that the lit area in flood position has a soft edge but practically no variation of intensity across the entire field of illumination.



A low voltage system

dedolight functions with 12V halogen bulbs. This allows dedolight to be powered from the dedolight power supply unit, battery belts, camera or car batteries (via the cigarette lighter socket).

Lamps

Lamps for the dedolight are available in the following wattages: 100W, 50W, 20W. The 100W (FCR) and 50W (BRL) lamps are commercially available worldwide. The 20W lamp is not so readily available but may be obtained from your dedolight agent.

Lamp life

The special quality of our lens treatment provides a slight boost to color temperature. This allows the lamps which are rated at 12V to reach standard 3200° Kelvin at 10.7 volts. In the dedolight, the standard lamps typically last 1250 hours (at 3200° Kelvin). This is over 25 times the manufacturer's rated life expectancy.

Light output

You would expect that by running the lamp at a voltage lower than rated and thus achieving an enormously extended lamp life, the light output would be considerably decreased. But this is not the case.

The output of the dedolight is comparable to conventional fixtures of much higher wattage.

In "high" position and flood, the output is approximately equal to a typical 300 W fresnel. When spotted, the output of the dedolight is considerably higher than that of a 300 W fresnel.

Power supply unit (DT 4)

The power supply unit is switcheable to either 110 V, 120 V, 220 V, 230 V and 240 V. Four dedolights can be used with one power supply unit. Each light can be switched individually in four steps:

1. OFF
2. LOW – 3000° Kelvin
3. MEDIUM – 3200° Kelvin (10.7 volts at lamp)
4. HIGH – 3400° Kelvin (12.2 volts at lamp)

Even when running the lamp at a higher voltage than rated, the lifetime of the lamps exceeds that rated by the manufacturer. This says a lot for the good thermal design of the dedolight.

Power supply unit (DT 5)

This special control unit has a fifth outlet. This can be used either as a regulated DC output to power a film or video camera (12 V) or to power a fifth dedolight.

Battery operation

The dedolight can be fed directly from a 12 V battery belt, camera battery or car battery (via the cigarette lighter socket). We offer a dedolight battery version which comes complete with an in-line switch. This can be mounted on top of a camera by means of a 5/8" (16 mm) stud or used as a hand held light with a handle.

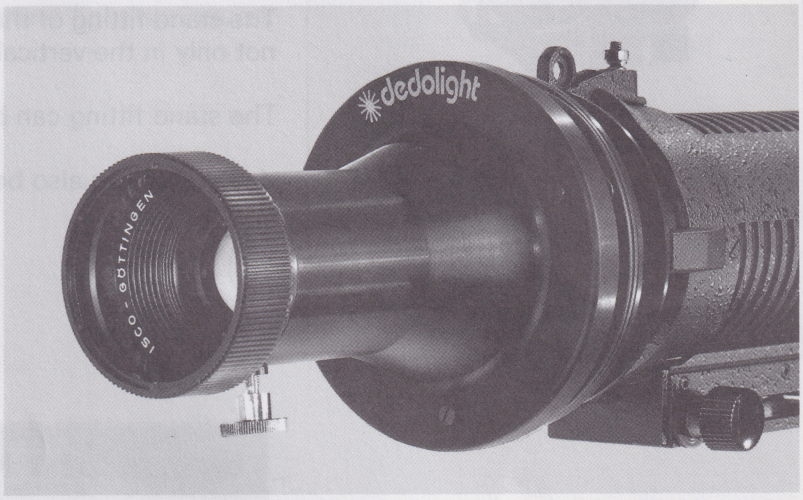
dedolight projection attachment

The dedolight projection attachment fits the light in place of the barndoor. This projection attachment uses a special condensor lens designed to match the optics of the dedolight and a high-quality projection lens.

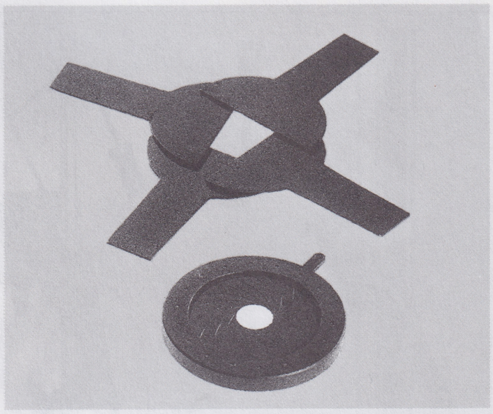
Light and shadow patterns can be projected with high precision and without any color fringing. This and the remarkable light output of the attachment make it a unique piece of equipment.

The light distribution can be varied by the focusing position of the dedolight.

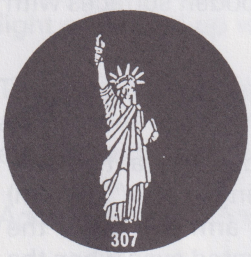
The sharpness of the shadow edges can be adjusted by moving the front lens of the projection attachment.

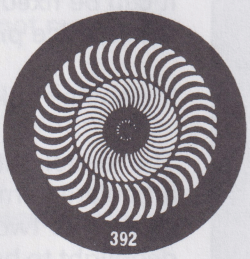


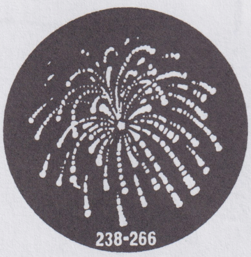
The dedolight projection attachment can be used in four ways:

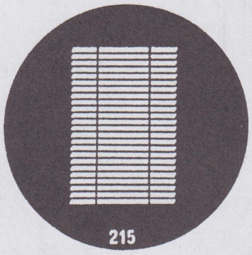


1) 3 or 4 framing shutters can be inserted to form light shapes in triangles, squares, rectangles etc.
2) An iris can be inserted in place of the framing shutters to form variable, perfectly round light shapes (18 leaf iris).
3) A gobo-holder allows the use of Rosco M-size gobos. There are over 300 patterns available.
4) You can make up your own shadow patterns by cutting them out from a piece of cinefoil or blackwrap, and use this shadow mask with a dedolight filter holder in the projection attachment.









dedolight gels

We offer various packages of pre-cut gels which fit in the dedolight gel-holder.

The gels come in packages of blue, mixed blue, mixed diffusion, warm tone effects, color effects and neutral density.

dedolight mounting

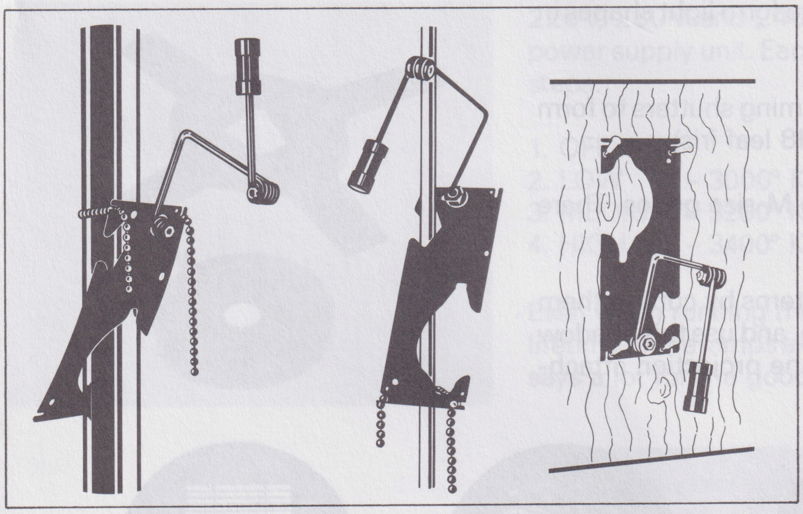
dedolights can be used with regular light stand with 5/8″ (16 mm) studs. But as the dedolight is so compact and light, a way can usually be found to mount the dedolight without having to use a stand – allowing the cameraman more freedom.

The stand fitting of the dedolight accepts the standard 5/8″ stud not only in the vertical axis but also sideways.

The stand fitting can be rotated 360 degrees.

dedolights can also be operated in the "upside down" position.

dedolight holder (DH3)

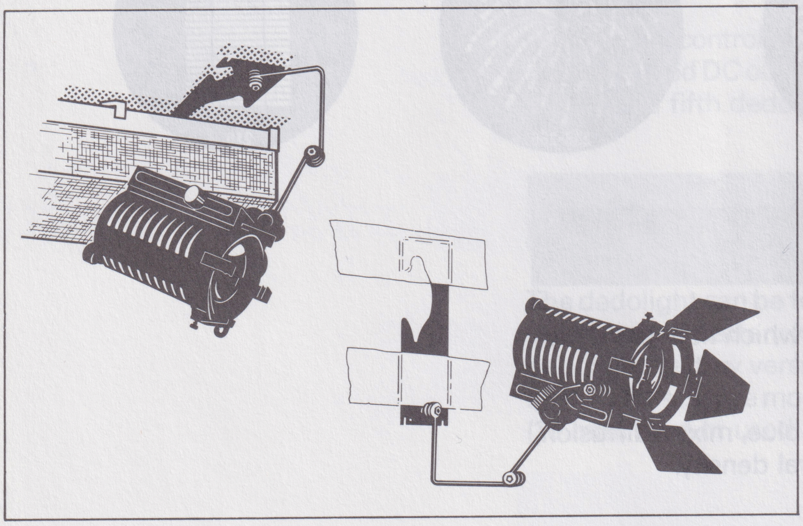


The baseplate of the dedolight holder is made from a special aircraft-type aluminium that has elastic qualities. The cutouts on the plate allow the holder to be attached to small or large pipes, legs of tables and chairs and many types of tubular structures. For this type of mounting, you bend the plate and secure it with the chain.

The holder can also be taped to flat surfaces with gaffer tape.

It can be fixed to wooden surfaces with small office pins.

It also has holes for screw mounting.



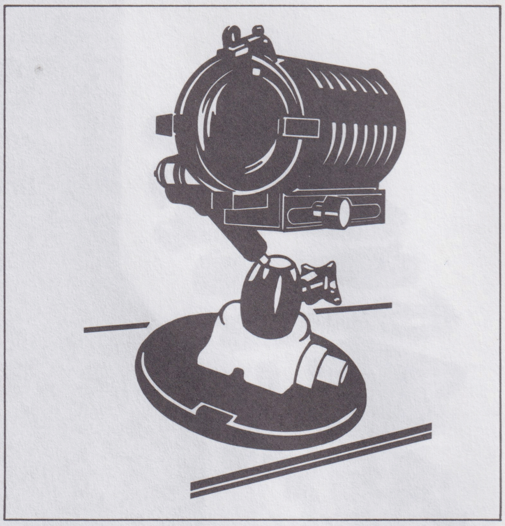
The dedolight holder has a two-way articulated arm ending in a 5/8″ (16 mm) stud. This two-way arm will allow the dedolight to be mounted even when the whole plate is wedged into a book shelf or drawer.

Two cutouts on the base-plate can be used as a wrench should one of the self-locking nuts on the dedolight system need tightening.

dedolight vacuum holder (DV6B)

The 6 inch vacuum holder is fitted with a pump which creates a true vacuum and enables you to mount dedolights to windows, doors or other flat surfaces. It comes complete with a swivel joint which can be firmly locked off.

This holder can also be used to mount other lighting fixtures which are heavier than the dedolight.



dedolight "on-board" (DLOB)

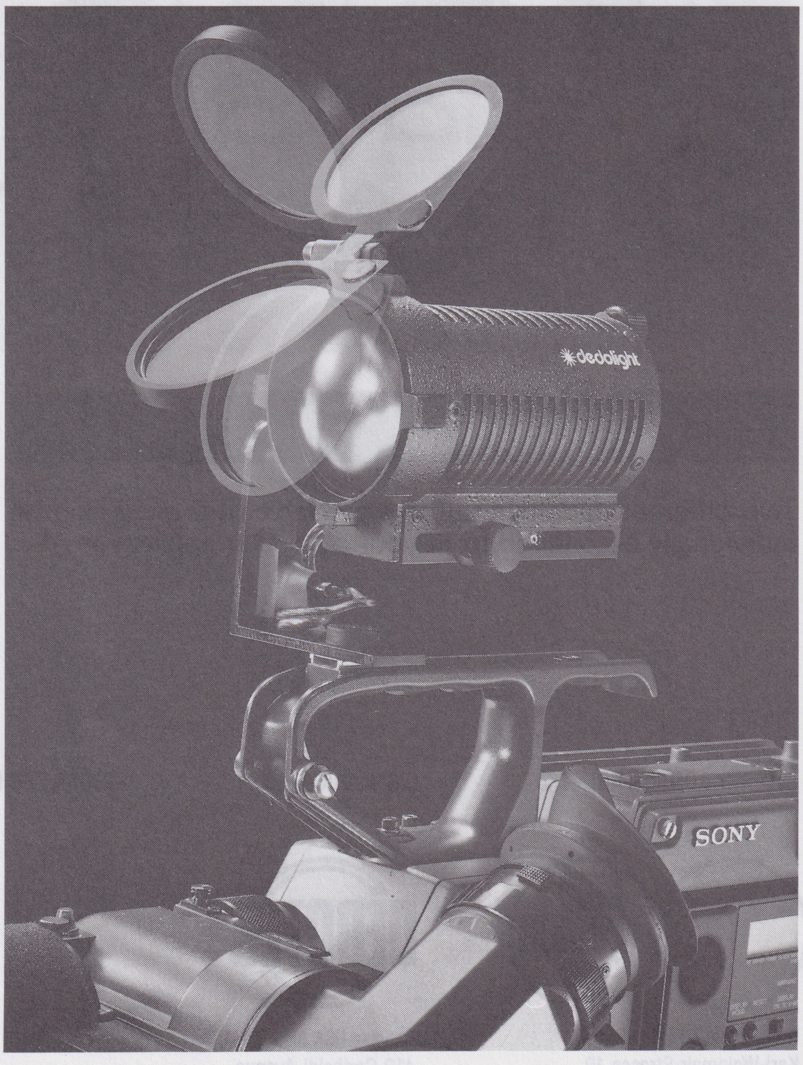
The dedolight on-board light may be mounted directly to a film or video camera. The light is fitted with a bracket which allows the central positioning of the fixture on the camera. This bracket also incorporates the on/off switch. The light may be attached to the camera either with a 1/4" screw or with a shoe mount (both parts are included with the fixture).

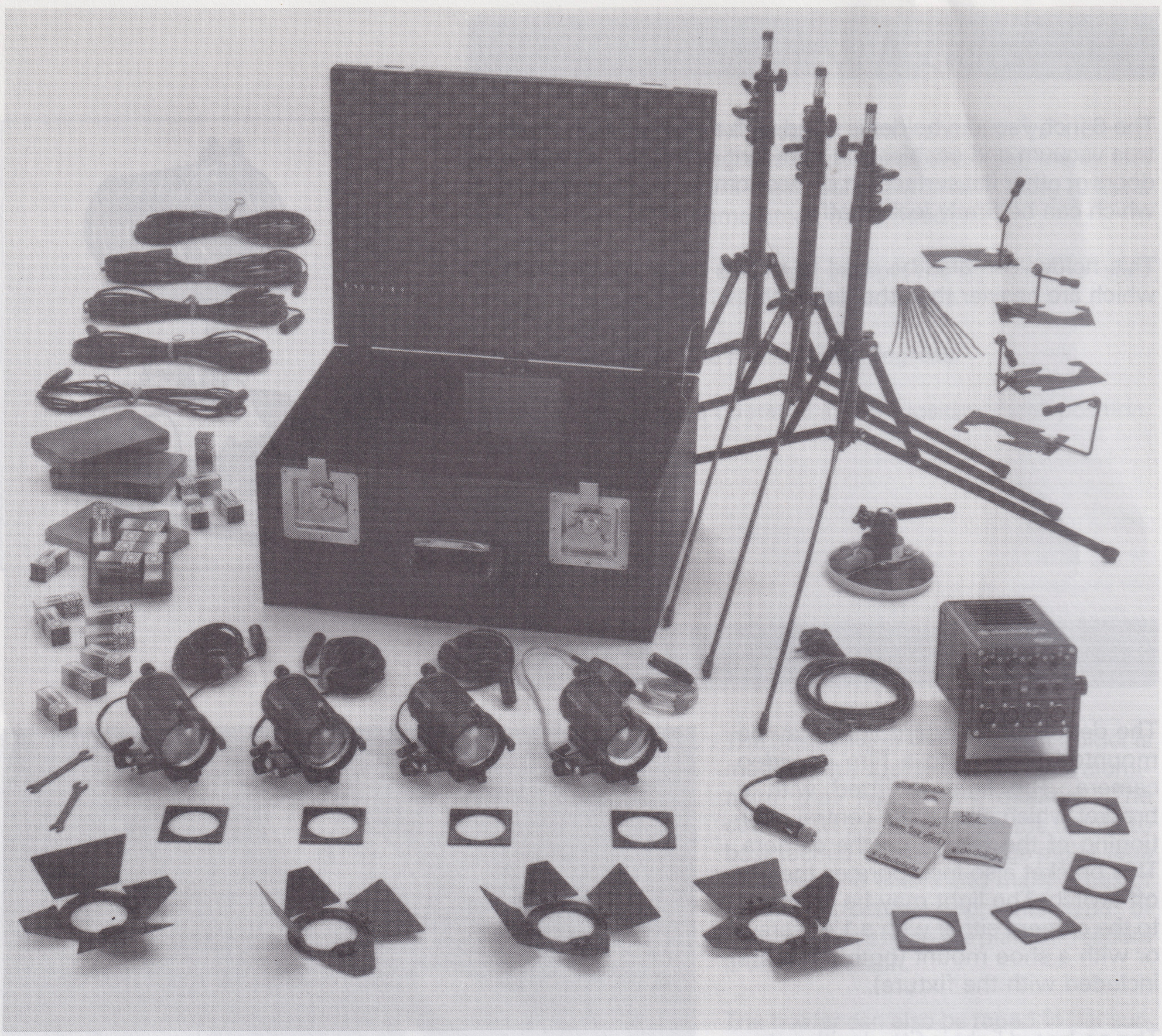
The on-board light is fitted with a daylight conversion filter. This filter can be flipped down into the path of the light or flipped up when not required.

The on-board light will not accept accessories like barndoors, projection attachment, etc.

Additional mounting accessories:

- CAMERA CLAMP (DLCLAMP)
  With this clamp the DLOB light may be mounted to a camera carrying handle (if screw or shoe mount is not possible or desired).
- STAND ADAPTOR (DLSA)
  The on-board light may be mounted to a standard lighting stand with the DLSA stand adaptor which accepts 5/8" (16 mm) stand studs.





dedolight kits

Two different dedolight kits are available. Kits may also be individually assembled to fit your particular application.

INTERNATIONAL MARKETING

Dedo Weigert Film GmbH
Karl-Weinmair-Strasse 10
80807 Munich
Germany
Phone: (0 89) 3 56 16 01
Fax: (0 89) 3 56 60 86
Telex: 529865

U.S. MARKETING

Dedotec USA Inc.
410 Garibaldi Avenue
LODI, NJ 07644
Phone: (201) 777-2771
Fax: (201) 777-5585

DISTRIBUTED BY